

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

LOCATION.--Lat 38°40'26", long 109°26'58", in SE¹/₄SW¹/₄NE¹/₄ sec. 35, T. 24 S., R. 22 E., Grand County, Hydrologic Unit 14030005, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft³/s, Jul 28, 1998, gage height, 7.43 ft; minimum daily discharge, 3.1 ft³/s, Jun 5, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 23	1800	*8.5	*5.47				

Minimum daily discharge, 3.2 ft³/s, Aug 6, 7, 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.8	4.1	6.5	6.7	6.4	6.8	7.0	4.3	3.8	3.7	3.5	e4.0
2	e3.7	4.2	6.5	6.7	6.6	6.8	6.7	4.3	3.8	3.7	3.5	e4.0
3	e3.7	4.3	6.5	6.6	7.2	6.8	6.6	5.0	3.7	3.7	3.7	e4.1
4	e3.7	4.4	6.5	6.7	7.2	6.8	6.6	5.1	3.7	3.8	3.5	e4.1
5	e3.8	5.3	6.5	6.7	7.2	6.8	6.6	4.9	3.7	3.8	3.3	e4.1
6	3.8	6.3	6.5	6.8	7.0	6.8	7.5	4.6	3.7	3.7	3.2	e4.2
7	4.0	e6.3	6.5	6.8	7.4	6.8	6.8	4.5	3.7	3.8	3.2	e4.3
8	4.0	e6.4	6.4	6.6	7.1	6.6	6.9	4.4	3.8	3.8	3.2	e4.4
9	3.9	6.8	6.4	6.6	6.7	6.7	6.9	4.5	3.9	3.9	3.4	e4.3
10	3.8	7.0	6.5	7.0	6.8	6.8	6.7	4.4	3.8	4.4	3.5	e4.4
11	4.1	7.0	6.7	6.8	6.9	7.0	7.3	4.2	3.7	e4.0	3.6	4.2
12	4.1	6.9	6.6	7.0	6.8	6.8	7.0	3.9	3.7	e3.8	3.5	4.4
13	4.0	6.7	6.7	7.2	6.8	6.8	6.6	3.8	3.8	3.6	3.5	4.5
14	4.0	6.7	6.6	6.6	6.8	6.7	6.2	3.8	3.8	3.9	3.6	4.6
15	4.0	7.0	6.6	6.4	6.8	6.6	5.3	3.8	3.8	4.1	3.6	4.6
16	4.0	6.8	6.4	6.6	6.7	6.6	5.3	3.8	3.7	3.8	3.8	4.6
17	4.0	6.4	6.3	6.5	6.7	6.6	5.3	3.8	3.7	3.6	3.8	4.5
18	4.0	6.3	e6.2	6.2	6.8	6.6	5.0	3.8	3.7	3.6	3.8	4.7
19	4.0	6.4	e6.2	6.1	6.8	6.6	4.8	3.9	3.7	3.7	3.7	4.6
20	4.0	6.6	e6.5	6.2	6.8	6.6	4.7	4.0	3.7	3.6	3.7	4.3
21	4.2	6.7	6.6	6.5	6.8	6.9	4.6	4.0	3.7	3.5	3.7	4.5
22	4.3	6.8	7.0	6.6	6.8	6.9	4.7	4.1	3.7	3.5	3.7	4.7
23	4.4	6.9	7.1	7.1	7.5	6.8	4.8	4.1	3.7	3.6	3.7	4.8
24	4.6	6.8	7.1	7.3	7.1	7.0	4.6	4.1	3.7	3.6	3.7	4.6
25	4.4	6.8	7.2	7.5	6.6	7.1	4.7	4.1	3.7	3.6	4.1	4.7
26	4.4	6.8	7.0	7.3	6.6	6.9	4.5	3.7	3.9	3.6	4.1	4.6
27	4.4	6.8	6.7	7.3	6.6	6.8	4.4	3.7	3.8	3.9	e4.0	4.5
28	4.4	6.7	6.8	7.3	7.3	6.7	4.4	3.7	3.8	4.1	e4.0	4.4
29	4.4	6.7	6.7	7.3	---	7.0	4.4	3.7	3.7	3.8	e3.9	4.3
30	4.4	6.6	6.8	7.1	---	6.9	4.4	3.7	3.6	3.5	e3.9	4.3
31	4.4	---	6.7	6.6	---	7.2	---	3.8	---	3.5	e3.9	---
TOTAL	126.7	189.5	205.3	210.7	192.8	210.8	171.3	127.5	112.2	116.2	113.3	132.3
MEAN	4.09	6.32	6.62	6.80	6.89	6.80	5.71	4.11	3.74	3.75	3.65	4.41
MAX	4.6	7.0	7.2	7.5	7.5	7.2	7.5	5.1	3.9	4.4	4.1	4.8
MIN	3.7	4.1	6.2	6.1	6.4	6.6	4.4	3.7	3.6	3.5	3.2	4.0
AC-FT	251	376	407	418	382	418	340	253	223	230	225	262

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	6.57	7.81	7.38	7.19	7.07	7.23	6.40	6.60	6.88	5.41	4.89	5.46
MAX	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	1998	1998	1998	1993	1998	1998	1993	1993	1993	1993	1997	1997
MIN	4.09	6.32	6.62	5.64	6.19	6.28	5.16	3.93	3.48	3.31	3.56	3.62
(WY)	2001	2001	2001	1999	2000	2000	2000	2000	2000	1994	1994	2000

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	1814.6		1908.6			
ANNUAL MEAN	4.96		5.23		6.57	
HIGHEST ANNUAL MEAN					8.84	
LOWEST ANNUAL MEAN					5.10	
HIGHEST DAILY MEAN	9.0	Jul 9	7.5	Jan 25	34	May 27 1993
LOWEST DAILY MEAN	3.1	Jun 5	3.2	Aug 6	3.1	Jun 5 2000
ANNUAL SEVEN-DAY MINIMUM	3.3	Jun 3	3.3	Aug 4	3.2	Jul 7 1994
ANNUAL RUNOFF (AC-FT)	3600		3790		4760	
10 PERCENT EXCEEDS	6.7		7.0		8.5	
50 PERCENT EXCEEDS	4.4		4.6		6.4	
90 PERCENT EXCEEDS	3.5		3.7		4.0	

